

IN THE CLAIMS:

1. [AMENDED] A burglar alarm and door chime comprising:

a. circuit logic means mounted to a back plate fastened to the inside of a door, said and cooperating with electric circuit logic means further cooperating with an "instant lock-alarm" mode electric switching means, and receiving control inputs from ["chime"/]"delay alarm"] modes electric switching means and On/Off power electric switching means to select a delay alarm mode or a chime mode of said burglar alarm and door chime, instant lock-alarm mode electric switching means, and non-contacting sensing means cooperating with said "chime"/"delay alarm" modes electric switching means, said circuit logic means further cooperating with an audible alarm and chime means cooperating with and an independent electric power supply means, and "On" and "Off" power electric switch means, and;

b. a front cover containing manual arming spring-biased ["instant lock-alarm"] slide means cooperating with said ["instant lock-alarm"] mode electric switching means of said burglar alarm and door chime when said front cover is fastened to said back plate, and;

c. a jamb plate fastened to an opposing doorjamb cooperating with said manual arming spring-biased ["instant lock-alarm slide"] means of said front cover during the opening of said door to effect actuate the ["instant lock-alarm"] mode of said burglar alarm and door chime;[,] and

d. said non-contacting sensing means ~~consisting of~~ comprising a transmitting means attached to said jamb plate and a receiving means attached to said back plate, said receiving means responsive to said transmitting means to automatically ~~activate and deactivate~~ actuate said selected ["chime"/]"delay alarm"] mode or said selected chime modes electric switching

means responsive to the opening and closing of said door to ~~effect the selected mode of said burglar alarm and door chime (i.e. "chime" or "delay alarm" mode).~~

2 [AMENDED] The burglar alarm and door chime of claim 1 wherein: a.] said spring-biased ["instant lock-alarm"] slide means attached to said front cover cooperates with said ["instant lock-alarm"] switch means to ~~effect~~ actuate an instant audible alarm having electric circuit latching means and ~~also functions~~ simultaneously slidingly engages as a mechanical dead bolt lock in cooperation with said jamb plate, and

~~b. said "chime"/"delay alarm" modes electric switching means of said burglar alarm and door chime comprise manual selection mode switching means whereby "chime" or "delay alarm" operational modes may be manually selected for said burglar alarm and door chime, and~~

~~c. said audible alarm and chime means comprises a speaker, said "On" and "Off" power electric switch means comprising a plurality of accessible manually operated electric switching means in series with said electric power supply means to manually activate or deactivate said burglar alarm and door chime and said electric power supply means comprises a battery.~~

3. [AMENDED] The burglar alarm and door chime of claim 2 wherein: a.] said spring-biased lock-alarm slide means comprises a slide having ["armed,"] ["instant lock-alarm,"] and ["unarmed"] slide positions slideably attached to said front cover, said slide being spring-biased to move through slots in said front cover to manually engage said jamb plate for the ["armed"] slide position, said jamb plate containing an cooperating aperture to automatically capture said slide during the opening of said door to engage the slide in effect the ["instant lock-alarm"] slide position, said slide having stop means engageable with said front cover to retain the slide in effect the ["unarmed"] slide position, and

~~b. — said transmitting means consisting of a permanent magnet attached to said jamb plate and cooperating with said receiving means attached to said back plate and consisting of a magnetically actuated switch responsive to said permanent magnet during the opening and closing of said door, said magnetically actuated switch cooperating with said "chime"/"delay alarm" modes electric switching means and said manual selection mode switching means to effect a "pre-arm" condition of said "delay alarm" operational mode of said "chime"/"delay alarm" modes electrical switching means during the opening of said door to activate said magnetically actuated switch and effect an "armed" condition of said "delay alarm" operational mode during the closing of said door, and causing a pre-set entry delay time means of said electric circuit logic means to cause said "delay alarm" operational mode of said "chime"/"delay alarm" electric switching means to be responsive to the opening of said door to activate said audible alarm means after a pre-determined delay time, or (if the "chime" mode of said manual selection mode switching means has been selected) to effect said "chime" operational mode during the opening of said door.~~

4. [AMENDED] The burglar alarm and door chime of claim 3 wherein: a.] said electric circuit logic means includes variable time delay means for said ["delay alarm"] operational mode[,] and [b.] light flashing indicating means responsive to said unarmed, ["armed"] slide position, said and ["instant lock-alarm"] slide positions and of said spring-biased lock-alarm slide means in said ["delay alarm"] operational mode[,] and c. said "On" and "Off" power electric switch means cooperating with additional electric switching means whereby the combination of said "On" and "Off" power electric switching means required to deactivate said burglar alarm and door chime can be altered.

5. [ORIGINAL] The burglar alarm and door chime of claim 1 further including a smoke detection sensing unit fastened to said burglar alarm and door chime.

6. [AMENDED] The burglar alarm and door chime of claim 5 wherein: a.] said smoke detection sensing unit comprises a visual functional indicating means, a and manual functional testing means ~~attached to said burglar alarm and door chime,~~ and b. ~~includes an independent power supply means.~~

7. [AMENDED] A burglar alarm and door chime comprising:

a. ~~a back plate fastened to a front cover forming a hollow enclosure therewith, said back plate fastened to a door on the protected enclosure side of said door, said back plate having upper and lower and side surfaces to locate and fasten said front cover to said back plate, and a power supply means and a printed circuit board comprising a circuit logic means fastened thereto, said circuit logic means including chime/delay alarm modes electric switching means to select a delay alarm mode or a chime mode of said burglar alarm and door chime, On/Off power electric switching means to enable said selected mode, instant lock-alarm mode electric switching means, and audible alarm and chime means interconnected with said printed circuit board;~~

b. ~~said front cover containing manual arming spring-biased ["instant lock-alarm"] slide means[,] and a bifurcated leaf spring contact means attached to said spring-biased ["instant lock-alarm"] slide means and electrically insulated therefrom, said bifurcated leaf spring contact means engaging ~~cooperating with said~~ ["instant lock-alarm"] mode electric switching means fastened to a printed circuit board, said printed circuit board fastened to said back plate, and said "instant lock-alarm" mode electric switching means cooperating with electric circuit logic means of said printed circuit board, and;~~

~~e. non-contact sensing means cooperating with "chime"/"delay alarm" modes electric switching means of said electric circuit logic means of said printed circuit board, and said non-contacting sensing means consisting of~~ comprising a transmitting means attached to a jamb plate[,] and a receiving means attached to said ~~printed circuit board~~ circuit logic means of said back plate, said receiving means responsive to said transmitting means to automatically ~~activate and deactivate~~ actuate said selected ["chime"/]delay alarm["] ~~modes electric switching means or said chime mode~~ responsive to the opening and closing of said door to effect the ~~selected mode of said burglar alarm and door chime (i.e. "chime" or "delay alarm" mode), and;~~

~~d. said transmitting means comprising consisting of a permanent magnet and said receiving means comprising consisting of a magnetically actuated switch, and;~~

~~e. said jamb plate having an opening there through and fastened to a the opposing door jamb and having a cooperating aperture to automatically capture with said manual arming spring-biased ["instant lock-alarm"] slide means of said front cover during the opening of said door to effect the ["instant lock-alarm"] mode of said burglar alarm and door chime, and;~~

~~f. said printed circuit board containing audible alarm and chime means and cooperating with "On" and "Off" power electric switching means cooperating with electric circuit logic means to activate or deactivate said burglar alarm and door chime in combination with electric power supply means being responsive to the opening and closing of said door to annunciate an audible alarm corresponding to said delay alarm mode or an audible chime corresponding to said chime mode according to said selected mode of said burglar alarm and door chime.~~

8. [AMENDED] The burglar alarm and door chime of claim 7 wherein: a.] said spring-biased ["instant lock-alarm"] slide means attached to said front cover cooperates with said ["instant

lock-alarm["] switch means to effect actuate an instant audible alarm having electric circuit latching means and ~~also functions simultaneously slidingly engages~~ as a mechanical dead bolt lock[,] in cooperation with said jamb plate, and

~~b. said "chime"/"delay alarm" modes electric switching means of said burglar alarm and door chime comprise manual selection mode switching means whereby "chime" or "delay alarm" operational modes may be manually selected for said burglar alarm and door chime, and~~

~~c. said audible alarm and chime means comprises a speaker, said "On" and "Off" power electric switch means comprises a plurality of accessible manually operated electric switching means in series with said electric power supply means to manually activate or deactivate said burglar alarm and door chime, and said electric power supply means comprises a battery.~~

9. [AMENDED] The burglar alarm and door chime of claim 8 wherein: a.] said spring-biased lock-alarm slide means comprises a slide having ["]armed,["] ["]instant lock-alarm,["] and ["]unarmed["] slide positions slideably attached to said front cover, said slide being spring-biased to move through slots in said front cover to manually engage said jamb plate for the ["]armed["] slide position, said jamb plate containing an cooperating aperture to automatically capture said slide during the opening of said door to engage the slide in effect the ["]instant lock-alarm["] slide position, said slide having stop means engageable with said front cover to effect retain the slide in the ["]unarmed["] slide position, and

~~b. said permanent magnet attached to said jamb plate being a rare earth permanent magnet and said magnetically actuated switch being a magnetically responsive reed switch, said rare earth permanent magnet and said magnetically responsive reed switch cooperating with said manual selection mode switching means to effect a pre-arm condition of said "delay alarm" operational mode of said "chime"/"delay alarm" modes electrical switching means during~~

~~the opening of said door and cause said magnetically responsive reed switch to effect the "armed" condition of said "delay alarm" operational mode during the closing of said door and causing a pre-set entry delay time means of said electric circuit logic means to cause said "delay alarm" operational mode of said "chime"/"delay alarm" electric switching means to be responsive to the opening of said door to activate said audible alarm means after a predetermined delay time, or (if the "chime" mode of said manual selection mode switching means has been selected) to effect said "chime" operational mode during the opening of said door.~~

10. [AMENDED] The burglar alarm and door chime of claim 9 wherein[:] a. ~~S~~said electric circuit logic means includes variable time delay means for said ["delay alarm"] operational mode[,] and light ~~flashing~~ indicating means responsive to said unarmed, ["armed"] ~~slide position~~, said and ["instant lock-alarm"] slide positions and of said spring-biased lock-alarm slide means in said ["delay alarm"] operational mode, ~~and said "On" and "Off" power electric switch means cooperating with additional electric switching means whereby the combinations of said "On" and "Off" power electric switching means required to deactivate said burglar alarm and door chime can be altered.~~

11. [ORIGINAL] The burglar alarm and door chime of claim 7 further including a smoke detection sensing unit fastened to said burglar alarm and door chime.

12. [AMENDED] The burglar alarm and door chime of claim 11 wherein said smoke detection sensing unit comprises a visual functional indicating means, a and manual functional testing means ~~attached to said burglar alarm and door chime,~~ and includes an independent power supply means.

13. [AMENDED] A burglar alarm and door chime comprising:

~~a. an self-contained operational electrical subassembly mounted to a circuit board and~~
containing electric circuit logic means[,] and electric power supply means mounted to a circuit
board, said electric circuit logic means comprising On/Off power electric switching means,
["]instant lock-alarm["] mode electric switching means, and ["]chime["]/["]delay alarm["] modes
electric switching means, and an audible alarm means, ~~said electrical subassembly mounted to~~
~~said circuit board comprising a self-contained operational electrical subassembly unit~~
~~detachably secured to a back plate, said back plate removably fastened to a door; and;~~

~~b. a mechanical subassembly comprising a front cover including and said front cover~~
~~comprising mechanical manual arming spring-biased ["]instant lock-alarm["] actuation means[,]~~
and spring-biased switching means attached thereto ~~said manual arming spring-biased "instant~~
~~lock-alarm" actuation means and cooperating with said circuit board detachably secured to said~~
~~back plate to effect actuate~~ said ["]instant lock-alarm["] mode of said burglar alarm and door
chime during the opening of said door, said mechanical subassembly removably interconnected
with said back plate; and

manually operated mode selection switching means including said instant lock-alarm
and chime/delay alarm modes electric switching means of said circuit logic means cooperating
to manually select among an instant lock-alarm mode, a chime mode, and a delay alarm mode;

said On/Off power electric switch means operating in series with said electric power
supply means to activate or deactivate said burglar alarm and door chime and cooperating with
additional electric switching means to set and alter the unique combination of first and second
positions of each of said On and Off power electric switch means required to activate and
deactivate said burglar alarm and door chime;

~~e. non-contacting sensing means cooperating with "chime"/"delay alarm" modes electric switching means of said circuit board logic means, and said non-contacting sensing means comprising switch actuation means electrically interconnected attached to said circuit board responsive to transmission media means attached to a jamb plate further attached to an opposing door jamb to effect the automatically actuate said selected ["chime"/]delay alarm["] mode or said selected chime modes electric switching means during responsive to the opening and closing of said door, and;~~

~~said audible alarm means responsive to said non-contacting sensing means when one of said modes is selected to emit an audible alarm or chime upon the opening of said door;~~

~~a variable time delay means of said circuit logic means to delay the sounding of said audible alarm or chime;~~

~~d. manually operated mode selection switching means attached to said circuit board of said self-contained operational electrical subassembly unit to manually effect the mode of choice for said "chime"/"delay alarm" modes electric switching means for said burglar alarm and door chime, and~~

~~e. said manual arming spring-biased ["instant lock-alarm"] actuation means comprising a slide for engaging a cooperating aperture in with said jamb plate attached to said door jamb to simultaneously provide for a mechanical deadbolt locking mode upon the opening of said door in said selected instant lock-alarm mode, and~~

~~f. an audible alarm means responsive to said manual arming spring-biased "instant lock-alarm" actuation means and said "chime"/"delay alarm" modes electric switching means, said audible alarm means cooperating with said electric power supply means to sound an alarm upon the opening of said door, and~~

~~g. "On" and "Off" power electric switch means cooperating with said electric power supply means to activate or deactivate said burglar alarm and door chime, and said "On" and "Off" power electric switch means cooperating with additional switch means whereby the combination of said "On" and "Off" power electric switch means required to deactivate said burglar alarm and door chime can be altered, and said "delay alarm" means having variable time delay means cooperating with said electric circuit logic means.~~

14. [AMENDED] The burglar alarm and door chime of claim 13 wherein said electric circuit logic means includes light indicating flashing means responsive to unarmed, pre-arm, ["armed,"] and ["dead-bolt-lock-alarm"] operational states of said manual arming spring-biased ["instant lock-alarm"] actuation means and in cooperation with said "delay alarm" operational state of said ["chime"/]"delay alarm"] modes electric switching means.

15. [AMENDED] The burglar alarm and door chime of claim 13 further including a smoke detection sensing unit independently fastened to said back plate and including independent power supply means, said smoke detection sensing unit comprising a visual functional indicating means and a manual functional testing means attached to said front cover of said mechanical subassembly and extending therethrough, to provide for visually and manually operationally testing said smoke detection sensing unit from said front cover.

16. [CANCELLED] A burglar alarm and door chime comprising:

a. a back plate fastened to the inside of a door having a front cover detachably secured to said back plate, said back plate and said front cover forming a hollow enclosure therein, said hollow enclosure containing electric circuit logic means cooperating with an "instant lock-alarm" mode electric switching means and "chime"/"delay alarm" modes electric switching means, said

"chime"/"delay alarm" modes electric switching means accessibly secured to said hollow enclosure, audible alarm and chime means and electric power supply means, and

b. "On" and "Off" power electric switch means accessibly secured to said hollow enclosure and cooperating with said electric circuit logic means and said electric power means, and

c. a manual arming spring-biased slide means attached to said hollow enclosure and cooperating with said "instant lock-alarm" mode electric switching means of said electric circuit logic means, and

d. non-contacting sensing means consisting of transmitting means attached to a jamb plate and receiving means attached to said back plate of said hollow enclosure cooperating with said "chime"/"delay alarm" modes electric switching means of said electric circuit logic means to automatically effect said "chime"/"delay alarm" modes of said burglar alarm and door chime responsive to the manual selection of said "chime"/"delay alarm" modes electric switching means (i.e. "chime" or "delay alarm" mode) responsive to the opening and closing of said door.

17. [CANCELLED] The burglar alarm and door chime of claim 16 wherein:

a. said manual arming spring-biased slide means cooperating with said "instant lock-alarm" mode electric switch means to effect an instant audible alarm having electric circuit latching means and also functions as a mechanical dead-bolt lock in cooperation with said jamb plate, and

b. said "chime"/"delay alarm" modes electric switching means comprise manual switching means accessibly secured to said front cover of said hollow enclosure cooperating with said non-contact sensing means whereby "chime" or "delay alarm" operational modes may be manually selected, and

c. said audible alarm and chime means comprises a speaker, said "On" and "Off" power electric switch means comprises a plurality of accessible manually operated switching means in series with said electric power supply means to manually activate or deactivate said burglar alarm and door chime and said electric power supply means comprises a battery.

18. [CANCELLED] The burglar alarm and door chime of claim 17 wherein:

a. said lock-alarm slide means comprises a slide having "armed," "instant lock-alarm," and "unarmed" slide positions slidably attached to said front cover, said slide being spring-biased to move through slots in said front cover to manually engage said jamb plate for the "armed" slide position, said jamb plate containing an aperture to automatically capture said slide during the opening of said door to effect the "instant lock-alarm" slide position, said slide having stop means engaging said front cover to effect the "unarmed" slide position, and

b. said transmitting means and said receiving means of said non-contacting sensing means consisting of a permanent magnet (transmitting means) attached to said jamb plate and a magnetically actuated switch (receiving means) attached to a printed circuit board attached to said back plate of said hollow enclosure, both cooperating with said "chime"/"delay alarm" modes electric switching means of said electric circuit logic means and cooperating with said manual selection mode switching means to effect a "pre-arm" condition of said "delay alarm" operational mode of said "chime"/"delay alarm" modes electrical switching means during the opening of said door and cause said magnetically actuated switch cooperating with said permanent magnet attached to said jamb plate to effect an "armed" condition of said "delay alarm" operational mode during the closing of said door, and causing a pre-set entry delay time means of said electric circuit logic means to cause said "delay alarm" operational mode of said "chime"/"delay alarm" electric switching means to be responsive to the opening of said door to

activate said audible alarm means after a pre-determined delay time, or (if the "chime" mode of said manual selection mode switching means has been selected) to effect said "chime" operational mode during the opening of said door.

19. [CANCELLED] The burglar alarm and door chime of claim 18 wherein said electric circuit logic means includes variable time delay means for said "delay alarm" operational mode and light flashing means responsive to said "armed" slide position, said "instant-lock alarm" slide position and said "delay alarm" operational mode, said "On" and "Off" power electric switch means cooperating with additional electric switching means whereby the combination of said "On" and "Off" power electric switching means required to deactivate said burglar alarm and door chime can be altered.

20. [CANCELLED] The burglar alarm and door chime of claim 16 further including a smoke detection sensing unit fastened within said hollow enclosure of said burglar alarm and door chime wherein said smoke detection sensing unit includes an independent power supply means and comprises visual and manual functional testing means cooperating with said smoke detection sensing unit.

21. [NEW] The burglar alarm and door chime of claim 1 wherein said receiving means comprising a magnetically actuated switch attached to said back plate is responsive to said transmitting means comprising a permanent magnet attached to said jamb plate during the opening and closing of said door, said magnetically actuated switch cooperating with said chime/delay alarm modes electric switching means and said On/Off power electric switching means to effect a pre-arm condition of said delay alarm operational mode during the opening of said door, and subsequently to activate said magnetically actuated switch to effect an armed condition of said delay alarm operational mode during the closing of said door and enabling a

pre-set entry delay time means of said electric circuit logic means to be responsive to the subsequent opening of said door to actuate said audible alarm means after a pre-determined delay time in said selected delay alarm operational mode of said burglar alarm and door chime, or to actuate said audible chime means during the opening of said door in said selected chime operational mode of said burglar alarm and door chime.

22. [NEW] The burglar alarm and door chime of claim 21 wherein said chime/delay alarm modes electric switching means comprises manual selection mode switching means whereby chime or delay alarm operational modes may be manually selected for said burglar alarm and door chime.

23. [NEW] The burglar alarm and door chime of claim 1 wherein said On/Off power electric switching means comprising a plurality of accessible manually operated electric switching means in series with said electric power supply means to manually activate or deactivate said burglar alarm and door chime cooperates with additional electric switching means to set and alter the unique combination of first and second positions of each of said On/Off power electric switching means required to activate and deactivate said burglar alarm and door chime.

24. [NEW] The burglar alarm and door chime of claim 7 wherein said permanent magnet comprising a rare earth magnet attached to said jamb plate is responsive to said magnetically actuated switch comprising a magnetically responsive reed switch, said rare earth permanent magnet and said magnetically responsive reed switch cooperating with said chime/delay alarm modes electric switching means and said On/Off power electric switching means to effect a pre-arm condition of said delay alarm operational mode during the opening of said door and subsequently to activate said magnetically responsive reed switch to effect an armed condition of said delay alarm operational mode during the closing of said door and enabling a pre-set

entry delay time means of said circuit logic means to be responsive to the subsequent opening of said door to activate said audible alarm means after a predetermined delay time in said selected delay alarm operational mode of said burglar alarm and door chime, or to activate said audible chime means during the opening of said door in said selected chime operational mode of said burglar alarm and door chime.

25. [NEW] The burglar alarm and door chime of claim 24 wherein said chime/delay alarm modes electric switching means comprises manual selection mode switching means whereby chime or delay alarm operational modes may be manually selected for said burglar alarm and door chime.

26. [NEW] The burglar alarm and door chime of claim 7 wherein said On/Off power electric switching means comprising a plurality of accessible manually operated electric switching means in series with said electric power supply means to manually activate or deactivate said burglar alarm and door chime cooperates with additional electric switching means to set and alter the setting of the unique combination of first and second positions of each of said On/Off power electric switching means required to activate and deactivate said burglar alarm and door chime.